

**Amendments to the Specification:**

Please replace the paragraph beginning at page 3, line 15, with the following rewritten paragraph:

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-- The present invention provides a mathematical model and apparatus for utilizing the model to simulate an imaging scenario. The model is comprised of basis objects, each basis object being defined by a mathematical function. Each basis ~~objects~~ object has a spatial relationship to the other basis objects, the basis objects and the spatial relationship defining a three-dimensional geometry of the model. The model is stored on a computer-readable medium and is capable of being transformed by one or more transformation operations, each transformation operator corresponding to a predetermined transformation operation, wherein when one of the transformation operators operates on one of the basis objects, the spatial relationship between the basis object that is operated on at least one other basis object is varied, thereby causing the geometry of the model to be varied. --